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| Form PTO-1449 | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DKT. NO. 500.38284CP2 | SERIAL NO. Unassigned |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | | APPLICANT Makoto MATSUOKA <i>et al.</i> | |
| | | FILING DATE 06/23/2003 | GROUP Unassigned |

U.S. PATENT DOCUMENTS

| Examiner Initial | Document Number | Date | Name | Class | Subclass | Filing Date |
|------------------|-----------------|-----------|----------|-------------------------|----------|-------------|
| MAO | AA | 5,904,548 | 05/18/99 | Orcutt | — | — |
| MAO | AB | 6,245,593 | 06/12/01 | Yoshihara <i>et al.</i> | — | — |
| MAO | AC | 4,722,130 | 02/02/88 | Kimura <i>et al.</i> | — | — |
| MAO | AD | 5,765,277 | 06/16/98 | Jin <i>et al.</i> | — | — |
| MAO | AE | 5,888,883 | 03/30/99 | Sasaki <i>et al.</i> | — | — |
| | AF | | | | | |
| | AG | | | | | |
| | AH | | | | | |
| | AI | | | | | |
| | AJ | | | | | |
| | AK | | | | | |
| | AL | | | | | |

FOREIGN PATENT DOCUMENTS

| Examiner Initial | Document Number | Date | Country | Class | Subclass | Translation/Abstract | |
|------------------|-----------------|----------|---------|-------|----------|----------------------|----|
| | | | | | | Yes | No |
| MAO | AM | 1-264236 | 10/89 | JP | — | | |
| MAO | AN | 6-97214 | 04/94 | JP | — | | |
| MAO | AO | 6-295930 | 10/94 | JP | — | | |
| | AP | | | | | | |
| | AQ | | | | | | |
| | AR | | | | | | |
| | AS | | | | | | |
| | AT | | | | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| | |
|----------|---|
| AU | |
| AV | |
| AW | |
| AX | |
| AY | |
| AZ | |
| Examiner | Mark A. Osele <div style="float: right;"> Date Considered 9-17-04 </div> |